

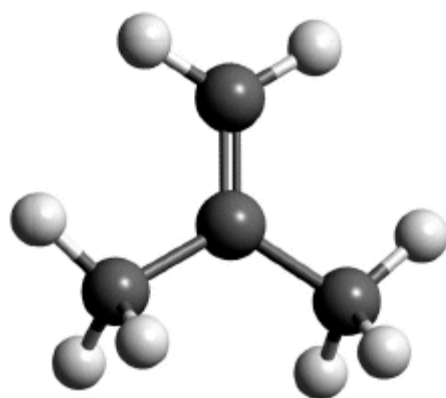
## Crystal Ball questions on Polymers

*All of the following questions have not (as yet!) appeared in the NCEA Level 1 Exams*

- 1) Describe the conditions required for a polymerisation reaction (to form a polymer eg *polypropene* from an alkene eg *propene*)
- 2) Describe (using diagrams) and explain the formation of polypropene. You must use the words monomer, polymer and polymerisation in your answer.

2) The polymerization of the alkenes is one of the most significant reactions of the twentieth century.

- i) Outline **two** reasons why the polymers of the alkenes are of economic importance



Key:



Carbon atom



Hydrogen atom

- ii) Deduce the structure of the resulting polymer showing **three** repeating units.
- iii) Explain why monomers are often gases or volatile liquids, but polymers are solids